#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



Region 6 Laboratory
Environmental Services Branch
10625 Fallstone Road, Houston, TX 77099
hone: (281)983-2100 Fax: (281)983-2248 Phone: (281)983-2100

### **Final Analytical Report**

	C'. N	017
	Site Name	Oil Trust Fund
	Sample Collection Date(s)	) 08/03/10
	Contact	Rich Mayer (6PD-F)
	Report Date	08/09/10
	Project #	10REG220
	Work Order(s)	1008009
Analyses included in this re	port:	
LC DOSS		
Report Narrative		
<u>Report Parrative</u>		
DOSS was not found at	or above the reporting limit fo	or the samples in this work order.
	results. The results apply or	y control were followed in the analysis and ally to the samples tested. This final report
Reporting limits are adju	usted for sample size and matr	rix interference.
Report Approvals:		
Richard McMillin Region 6 Laboratory Manag	ger	David Neleigh Region 6 Laboratory Branch Chief

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Please provide a reason for holding:

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

#### **Region 6 Environmental Services Branch Laboratory**

10625 Fallstone Road Houston, Texas 77099

## **Sample Receipt and Disposal**

Site Name: Oil Trust Fund	Project Number: 10REG220
Data Management Coordinator: Christy Warre	en
	/ /
Data Management Coordinator Signature	Date
Date Transmitted:/	
Please have the U.S. EPA Project Manager/Off comments or questions.	ficer call the Data Management Coordinator at 3-2137 for any
Please sign and date this form below and return	n it with any comments to:
Christy Warren Data Management Coordinator Region 6 Laboratory 6MD-HS	
Received by and Date	
Comments:	
The laboratory routinely disposes of samples 9 hold these samples in custody longer than 90 d	0 days after all analyses have been completed. If you have a need to ays, please sign below.
Signature	Date



## **Region 6 Laboratory**

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#### ANALYTICAL REPORT FOR SAMPLES

Station ID	Laboratory ID	Sample Type	Date Collected	Date Received
T007-0006-100803-SW-1	1008009-01	Liquid	8/3/10 11:00	08/04/10 09:35
T001-1347-100803-SW-1	1008009-02	Liquid	8/3/10 9:10	08/04/10 09:35
T005-1336-100803-SW-2	1008009-03	Liquid	8/3/10 10:45	08/04/10 09:35
T005-1336-100803-SW-1	1008009-04	Liquid	8/3/10 10:45	08/04/10 09:35

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## Region 6 Laboratory

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### DOSS by LC/MS/MS

Lab ID: 1008009-01 Station ID: T007-0006-100803-SW-1

Batch: B0H0401 Date Collected: 08/03/10 Sample Volume: 22 ml Sample Type: Liquid

Sample Qualifiers:

#### **Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	194		107	50-150	08/04/10	08/04/10

#### **Targets**

Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	08/04/10 08/04/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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## **Region 6 Laboratory**

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#### DOSS by LC/MS/MS

Lab ID: 1008009-02 Station ID: T001-1347-100803-SW-1

Batch: B0H0401 Date Collected: 08/03/10 Sample Type: Liquid Sample Volume: 23 ml

Sample Qualifiers:

#### **Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	181		104	50-150	08/04/10 08/04/10
		<b>Targets</b>			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	08/04/10 08/04/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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Batch: B0H0401

Sample Type: Liquid

#### **Environmental Protection Agency**

## Region 6 Laboratory

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#### DOSS by LC/MS/MS

Lab ID: 1008009-03 Station ID: T005-1336-100803-SW-2

> Date Collected: 08/03/10 Sample Volume: 22 ml

Sample Qualifiers:

#### **Surrogates**

Analyte	Result µg/l	Analyte Qualifiers	%Recovery	%Recovery Limits	Prepared	Analyzed
Surr: DOSS-D34	194		107	50-150	08/04/10	08/04/10
		<b>Targets</b>				
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared	Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		19.5	1	08/04/10	08/04/10

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## Region 6 Laboratory

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#### DOSS by LC/MS/MS

Lab ID: 1008009-04 Station ID: T005-1336-100803-SW-1

Batch: B0H0401 Date Collected: 08/03/10 Sample Volume: 20 ml Sample Type: Liquid

Sample Qualifiers:

#### **Surrogates**

Analyte	Result µg/l	Analyte Qualifiers		%Recovery Limits	Prepared Analyzed
Surr: DOSS-D34	212		106	50-150	08/04/10 08/04/10
		<b>Targets</b>			
Analyte (CAS Number)	Result µg/l	Analyte Qualifiers	Reporting Limit	Dilution	Prepared Analyzed
Dioctyl sulfosuccinate, sodium salt (577-11-7)	U		20.0	1	08/04/10 08/04/10

This LC/MS/MS method is a developmental method that was created specifically for the Gulf oil spill by the Region 6 lab in conjunction with other EPA laboratories. Therefore it has not been validated with the normal rigorous procedures and performance data that an EPA method would normally complete before being released. Improvements will continue to be made to this method as more is learned about the nuances of this technique with these analytes and various matrices. Proper sample collection or preservation procedures have not been established and holding times are unknown.

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## **Region 6 Laboratory**

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#### DOSS by LC/MS/MS - Quality Control

Batch: B0H0401 Sample Type: Liquid

#### **Blank** (**B0H0401-BLK1**)

Prepared: 8/4/2010 Analyzed: 8/4/2010

#### **Surrogates**

	Result	Analyte	Spike		%REC
ANALYTE	μg/l	Qualifier	Level	%REC	Limits
Surr: DOSS-D34	200		200	99.9	50-150

#### **Blank** (**B0H0401-BLK1**)

Prepared: 8/4/2010 Analyzed: 8/4/2010

#### **Targets**

ANALYTE		Analyte Reporting Qualifiers Limit	RPD RPD Limit
Dioctyl sulfosuccinate, sodium	U	20.0	

salt

#### LCS (B0H0401-BS1)

Prepared: 8/4/2010 Analyzed: 8/4/2010

#### **Surrogates**

ANALYTE	Result Anal µg/l Quali	1	%REC %REC Limits	
Surr: DOSS-D34	214	200	107 50-150	

#### LCS (B0H0401-BS1)

Prepared: 8/4/2010 Analyzed: 8/4/2010

#### **Targets**

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit	Spike Level	%REC WREC Limits	RPD RPD Limit
Dioctyl sulfosuccinate, sodium salt	84.3	20.0	87.5	96.4 50-150	

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## Region 6 Laboratory

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#### DOSS by LC/MS/MS - Quality Control

**Batch: B0H0401** Sample Type: Liquid

Matrix Spike (B0H0401-MS1)

Prepared: 8/4/2010 Analyzed: 8/4/2010 Source: 1008009-01

**Surrogates** 

ANALYTE	Result µg/l	Analyte Qualifier	Spike Level	%REC L	REC imits
Surr: DOSS-D34	192		182	106 5	0-150

Matrix Spike (B0H0401-MS1)

Prepared: 8/4/2010 Analyzed: 8/4/2010 Source: 1008009-01

**Targets** 

ANALYTE		Analyte Reporting Qualifiers Limit			%REC Limits	RPD RPD Limit
Dioctyl sulfosuccinate, sodium	84.6	20.0	79.5	101	50-150	

salt

#### Matrix Spike Dup (B0H0401-MSD1)

Prepared: 8/4/2010 Analyzed: 8/4/2010 Source: 1008009-01

**Surrogates** 

	Result	Analyte	Spike	%REC
ANALYTE	μg/l	Qualifier	Level %F	REC Limits
Surr: DOSS-D34	178		182 9	8.1 50-150

#### Matrix Spike Dup (B0H0401-MSD1)

Prepared: 8/4/2010 Analyzed: 8/4/2010 Source: 1008009-01

#### **Targets**

ANALYTE	Result µg/l	Analyte Reporting Qualifiers Limit			%REC Limits	RPD	RPD Limit
Dioctyl sulfosuccinate, sodium salt	87.6	20.0	79.5	105	50-150	3.51	30

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# **Region 6 Laboratory**

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ne: 713.9	Phone: 713.985.6636									Lab	Lab Phone: 281-983-2137	Lab Phone: 281-983-2137
Lab# Sar	Sample #	Analyses	Matrix		Collection	Collected	Sample	Numb Co	Numb Container		Preservative	MS/MSD
DT .	T007-0006-100803-SW-1	SSOO	Surface Water	Water	Grab	832010	11:00		40 ml VOA		0	>
Special Instructions:	uctions:							SAMPL	SAMPLES TRANSFERRED FROM	FERRED F	ROM	
Items/Reason	son Relinquished by	Date	Received by	Date	Time	ltems/Reason	Relinauished Bv	shed Bv	Date	Received by	Date	Time
ALL	# 1 M	9/3/10	The Sand	8/3/6		A CONTRACTOR OF THE CONTRACTOR	~		1.34	Ser	000	- 0

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# **Region 6 Laboratory**

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Sample # . Analyses Matrix Collected Sample Numb Cont Preservativ MSMS Description on Method Time Numb Cont Preservativ MSMS Description on Method Sample Numb Cont Preservativ MSMS Description on Method Sample Sa	713-985-6600 US EPAWeston Venice, LA		R06 Deep H2O Horizon Reporting Lab: EPA Houston Lab Lab_State: TX	Deep H2O Horizon Rep Lab: EPA Houston Lab Lab_State: TX	R06 Deep H2O Horizon Reporting Lab: EPA Houston Lab Lab_State: TX			Lab Address: 10625 Fallstone Rd Lab_City: Houston Lab_Zity: 7099	ab Addres	Lab Address: 10625 Fallstone Rd Lab_City: Houston Lab_Zip: 77099
100803-5W-1	Lab# Sample#	Analyses		Collecti on Method	Collected	Sample Time	Numb Cont	Preservativ e	MS/MS D	Description
Reinquished by Date Time Items/Reason Reinquished By Date Recaived by Date  Recaived by Date Time Items/Reason Reinquished By Date Recaived by Date  Recaived by Date Time Items/Reason Reinquished By Date Recaived by Date  Recaived by Date Time Items/Reason Reinquished By Date Recaived by Date  Recaived by Date Time Items/Reason Reinquished By Date Recaived by Date  Recaived by Date Time Items/Reason Reinquished By Date Recaived by Date  Recaiv	T001-1347-100803-SW-1	SSOO	Surface Water	Grab	8/3/2010	09:10	2	9 t	z	
Reimquished by Date, Received by Date Time ItemsReason Relinquished By Date Received by Date    Search   Secret   Secret   Search   Search										
Reinquished by Date Time Items/Reason Reinquished By Date Received by Date  Received by Date Time Items/Reason Reinquished By Date Received by Date  Received by Date										
Reinquished by Date, Received by Date Time HemsReason Reinquished By Date Received by Agentic May 1700 (Mills H. 36.35)	l Instructions.						SAMP	LES TRANSF I OF CUSTOD	ERRED FF	мох
	4	John X	Date Tim 08% 17.0 01/20		lems/Reason		0	MCIX	Received by Scale	Date No.



## **Region 6 Laboratory**

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	Sample #	Analyses	Matrix	Collection	Collected	Sample	Numb Cont	Numb Cont Container	Preservative
1000	T005-1336-100803-SW-2	SSOO	Surface	Grab	8/3/2010	10:45	2	2 40 ml VOA	4 C
	T005-1336-100803-SW-1	SSOQ	Surface	Grab	8/3/2010	10:45	2	2 40 ml VOA	0
<u>c</u>	Special Instructions:					SAM	SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #	RRED FROM	
000		Date Received by	Date Time	Items/Reason		Relinquished By	Date R		Date Time
	Beer of the State	8/3/0 Strong 8/3/0	\$ 17.50 \$ 17.50 \$ 14.5 6.125 \$ 14.5 6.125	0	2	the things	9:35 Hams		9:35 /4/

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#### **Notes and Definitions**

Α This sample was extracted at a single acid pH.

HTS Sample was prepared and/or analyzed past recommended holding time. Concentrations should be

considered minimum values.

**AES Atomic Emission Spectrometer** 

**CVAA** Cold Vapor Atomic Absorption

**ECD** Electron Capture Detector

GC Gas Chromatograph

**GFAA** Graphite Furnace Atomic Absorption

**ICP Inductively Coupled Plasma** 

MS Mass Spectrometer

NA Not Applicable

**NPD** Nitrogen Phosphorous Detector

NR Not Reported

**TCLP** Toxicity Characteristic Leaching Procedure

Undetected U

Out of QC limits

Initial pressure in air analyses is the pressure at which the canister was received in psia (pounds per square inch absolute pressure).

The pH reported for Volatile liquid samples was tested using a 0-14 pH indicator strip for the purpose of verifying chemical preservation.

The statistical software used for the reporting of toxicity data is ToxCalc 5.0.32, Environmental Toxicity Data Analysis System 1994-2007 Tidepool Scientific Software.

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